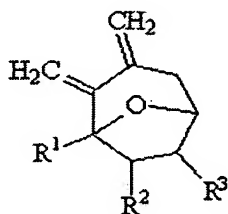


ABSTRACT

The present invention relates to a synthesis of a 7-membered carbocyclic compound having diexomethylene groups, more particularly to a synthesis of a 7-membered carbocyclic compound having diexomethylene groups, a novel compound
5 having the structure represented by the following Chemical Formula 1, from trimethylsilanylmethyl-allenol derivative by the intramolecular Prins cyclization using Lewis acid. The 7-membered carbocyclic compound is a useful intermediate for synthesis of other multicyclic compounds.



(I)

In Chemical Formula 1, R¹ is a C₁ to C₆ alkyl group, and R² and R³ is respectively a hydrogen atom, or R¹, R² and R³ may be connected with neighboring substituents to form a 5 to 10-membered aliphatic or aromatic ring.